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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,474	10/11/2001	Michael Guess	ONFI00/4-CONUS	9742

7590 01/18/2008  
Andrew G. DiNovo  
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P.O. Box 201690  
Austin, TX 78720

EXAMINER
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NGO, NGUYEN HOANG

ART UNIT	PAPER NUMBER
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2616

MAIL DATE	DELIVERY MODE
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01/18/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

09/975,474

Applicant(s)

GUESS ET AL.

Examiner

Nguyen Ngo

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 29 October 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/ are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Response to Amendment*

This communication is in response to the amendment of 10/29/2007. All changes made to the Claims have been entered. Accordingly, Claims 1-19 are currently pending in the application.

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over ExtremeWare Software User Guide, by Extreme Networks, Inc, in view of Sistanizadeh et al. (US 6963575), hereinafter referred to as ExtremeWare and Sistanizadeh.

**Regarding claim 1, 2, 4, 5, 10, 12, 13, 14,** ExtremeWare Networks, Inc. discloses of an ESRP (router protocol) that allows multiple switches to provide redundant routing services to users (a network failover transition system (redundant routing services) for a plurality of ports (switches) communicating over a VLAN, Chapter 10, Page 10-1).

ExtremeWare further discloses;

of one switch that actively provides layer 2 switching for each VLAN and that the switch performing the forwarding for a particular VLAN is considered the "master" for that VLAN (a first switch having a master mode and a standby mode, said first switch running only a layer 2 protocol and configured to provide switching between said ports (forwarding), while in said master mode, 10-2);

of other participating switches for the VLAN are in standby mode (a second switch having a master mode and a standby mode, said second switch running only a layer 2 protocol and configured to providing switching between said ports while in said master mode, wherein said second switch is in said standby mode when said first switch is in said master mode, and said second switch is in said master mode when said first switch is in said standby mode (relinquishes status, 10-2 and 10-4);

that if any of the configured tracking mechanisms fail, the master ESRP switch relinquishes status as master and remains in standby mode for as long as the tracking mechanism continues to fail (wherein said first switch is configured, upon a detection of a network failure, to restart auto-negotiation of said ports, and to transition to said standby mode; and wherein said second switch is configured, upon said detection of a network failure, to transition to said master mode, 10-4).

that switches, being ESRP-aware, allow traffic within the VLAN to fail-over quickly, as they will sense when a master/slave transition occurs and flush FDB entries associated with the switches (wherein upon said configuration of said second switch to transition to said master mode (transition), flushing a layer 2 forwarding database (FDB), 10-17 – 10-18).

ExtremeWare however fails to specifically disclose the limitation of rebroadcast for a new path once the ports flushes a layer 2 forwarding database. ExtremeWare however discloses that Dynamic FDB (forwarding data base) entries associated with the VLAN are flushed once the change is committed (6-14) and that entries in the database are removed if, after a period of time, the device has not transmitted (7-2). Thus it would have been obvious to a person skilled in the art to have one of said ports flush a layer 2 forwarding database and rebroadcasts for a new path if that specific switch has not transmitted for some time (standby mode) in order to efficiently determining new paths in order to provide redundant routing services to users in case of a network failure.

ExtremeWare further fails to specifically disclose a wide-area fiber optic network and to rebroadcasts for a new path over said wide-area fiber-optic network. ExtremeWare however discloses that ExtremeWare is a full-featured software operating system that is designed to run on the Blackdiamond, Alpine, and Summit families of Gigabit Ethernet switches (page 1-1). In a similar field of endeavor, Sistanizadeh

discloses of a regional area network including a number of ring networks and redundant optical fiber ring networks (wide-area fiber optic network, col2 lines 25-40), and further discloses that the switches used, are Summit data switches and Blackdiamond switches from Extreme Networks (col8 lines 11-51). It would have thus been obvious to a person skilled in the art to incorporate the concept of having the network as disclosed by ExtremeWare be a wide-area fiber optic network, as disclosed by Sistanizadeh in order to efficiently provide redundancy in a network comprising optic rings.

**Regarding claim 2, 11,** ExtremeWare discloses said VLAN is part of an Ethernet network (Ethernet switches, 1-1).

**Regarding claim 6, 7, 15, 16,** ExtremeWare discloses said ports utilize ARP (switch supports ARP, 11-5).

**Regarding claim 8, 9, 17, and 18,** ExtremeWare discloses said network failure is detected using ping track (ESRP ping tracking, 10-4-10-5).

**Regarding claim 19,** ExtremeWare discloses a maximum of four switches participate in providing redundant services to a single VLAN, and that one switch is the Master while the other switches are in standby mode (10-2).

### ***Response to Arguments***

4. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen Ngo whose telephone number is (571)272-8398. The examiner can normally be reached on Monday-Friday 7am - 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on (571)272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

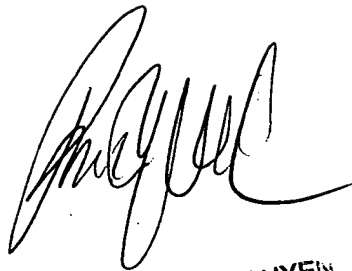
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NN.  
**Nguyen Ngo**

United States Patent & Trademark Office  
Patent Examiner AU 2663  
(571) 272-8398

A handwritten signature in black ink, appearing to read 'Brian Nguyen', written in a cursive style.

**BRIAN NGUYEN  
PRIMARY EXAMINER**